

# Relationship between angiogenesis and the immune response against solid tumors

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## Stellingen

Behorende bij het proefschrift:

“Relationship between angiogenesis and the immune response against solid tumors”

1. Een tumor produceert factoren die de expressie van adhesiemoleculen op het tumorendotheel zodanig manipuleren dat de tumor ongeremd kan expanderen. (dit proefschrift)
2. Inhibitie van tumorangiogenese stimuleert en normaliseert de expressie van adhesiemoleculen op bloedvaten in de tumor. (dit proefschrift)
3. Behandeling van een tumor met de angiogeneseremmers anginex en 0118 vergemakkelijkt en verhoogt de infiltratie van geactiveerde effector T cellen met specifieke antitumor activiteit. (dit proefschrift)
4. De combinatie van immuunregulerende en antiangiogene eigenschappen, maakt interleukine-21 een krachtig molecuul te bestrijding van kanker. (dit proefschrift)
5. Interleukine-21 signalering in endotheelcellen is verschillend van deze in leukocyten; IL-21 belet de fosforylering van STAT3 en kan daardoor angiogenese remmen. (dit proefschrift)
6. In tegenstelling tot intercellulair adhesiemolecuul-1 (ICAM-1) wordt de expressie van vasculair adhesie proteïne-1 (VAP-1) in tumorvaten niet onderdrukt door het micro-milieu in de tumor. (dit proefschrift)

7. I kept saying to myself: 'I have seen this (tumor neovascularisation) personally, and eventually others will see it too'. (J. Folkman, seminar June 15, 2001)

8. The tumor microenvironment, which is largely orchestrated by inflammatory cells, is an indispensable participant in the neoplastic process, fostering proliferation, survival and migration. (Coussens et al. Nature 2002)

9. Niet de arts maar het lichaam geneest de ziekte. (Hippocrates)

10. Fantasie is belangrijker dan weten, want weten is begrensd. (Albert Einstein)

11. Het Vlaams is een rijkere taal dan het Nederlands.

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Maastricht, 1 februari 2008